

PIONEER



The photo shows the model KP-212G.

ORDER NO. CRT-326-0

E

F

COMPONENT CAR STEREO CASSETTE DECK

KP-313G KP-212G

NOTE:

For cassette mechanism, refer to the following Service Manuals (Cassette mechanism unit).

KP-313G/E→CX-146/F (CRT-324) KP-212G/E→CX-147/B (CRT-325)

SPECIFICATIONS

General
Power source DC 14.4V (10.8 ~ 15.6V allowable
Grounding system Negative type
Dimensions
Weight
Tone controls (bass)
(treble)±10 dB (100Hz
(treble)±10 dB (10kHz
Loudness contour + 12 dB (100Hz), +4 dB (10kHz)
Maximum automated (volume: -30 dB)
Maximum output level
Output impedance
Tape player
Tape Compact cassette tape (C-30 ~ C-90)
Tape speed4.76cm/sec.
(+0.19cm/sec0.05cm/sec.)
(* **********************************

Fast forward/rewind time Approx. 100 sec. for C-60
Wow & flutter
Frequency response Metal: $30 \sim 18,000 \text{Hz} (\pm 3 \text{dB})$
Normal: 30 ~ 15,000 Hz (±3 dB)
Stereo separation
Signal-to-noise ratio 55 dB (IEC-A network)

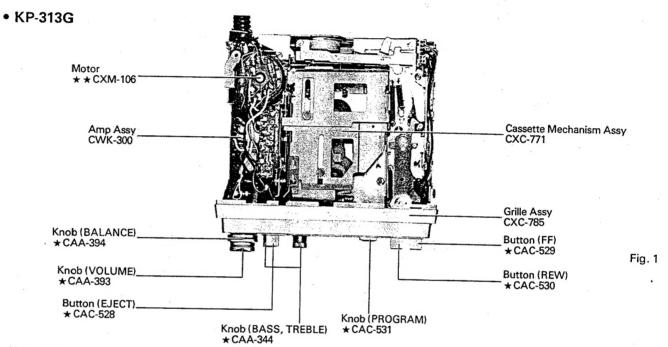
Note

Specifications and the design are subject to possible modification without notice due to improvements.

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1. PARTS LOCATION

For your Parts Stock Control, the fast moving items are indicated with the marks * * and *.
 * *: GENERALLY MOVES FASTER THAN *.
 This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.



• KP-212G

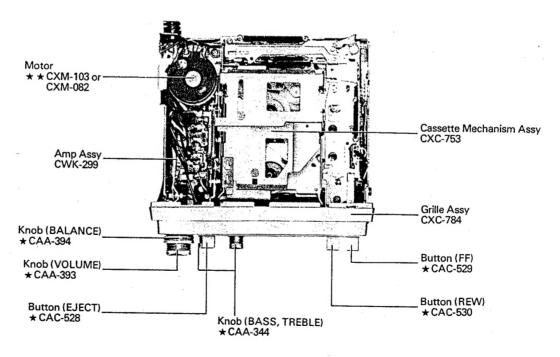
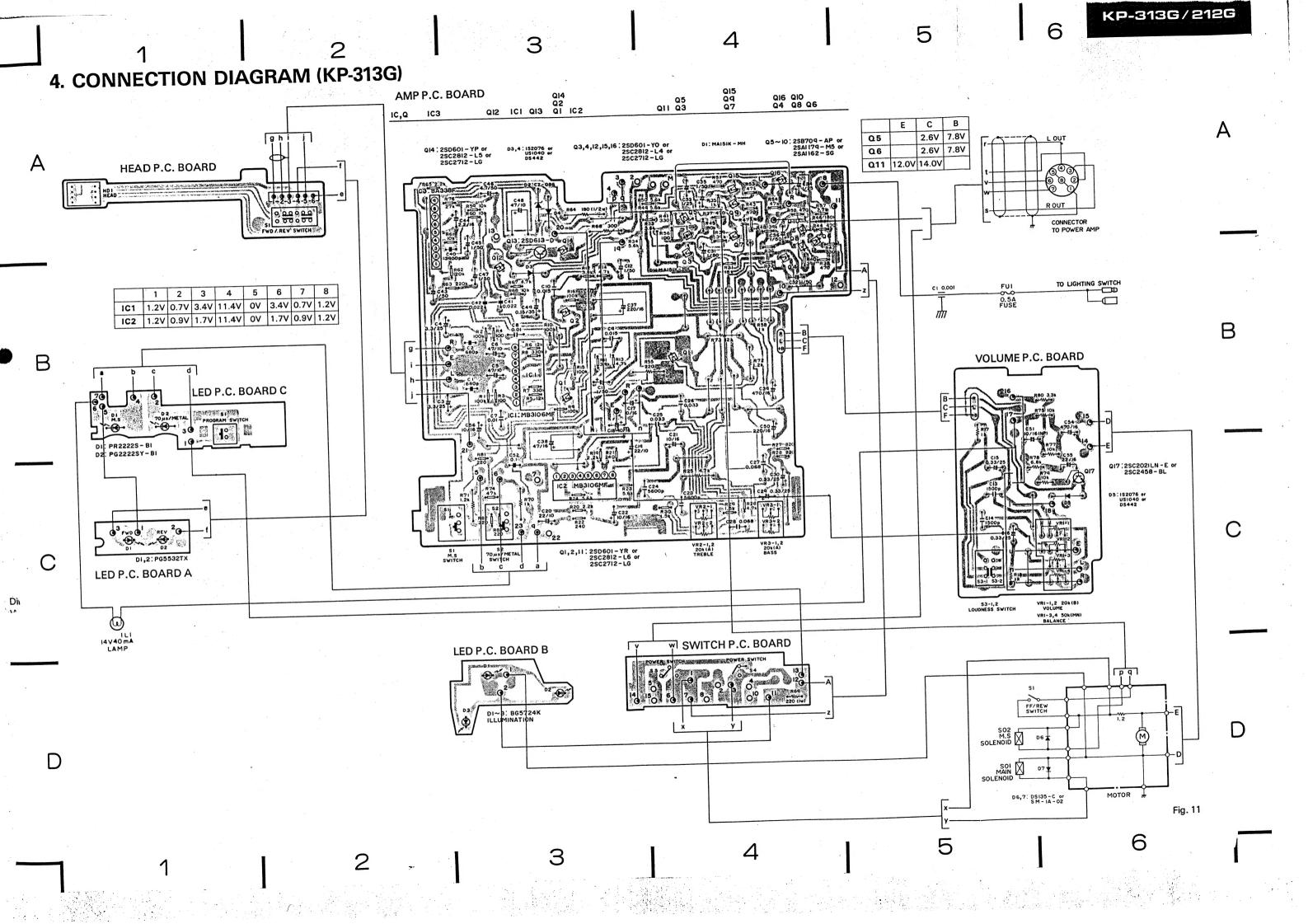


Fig. 2

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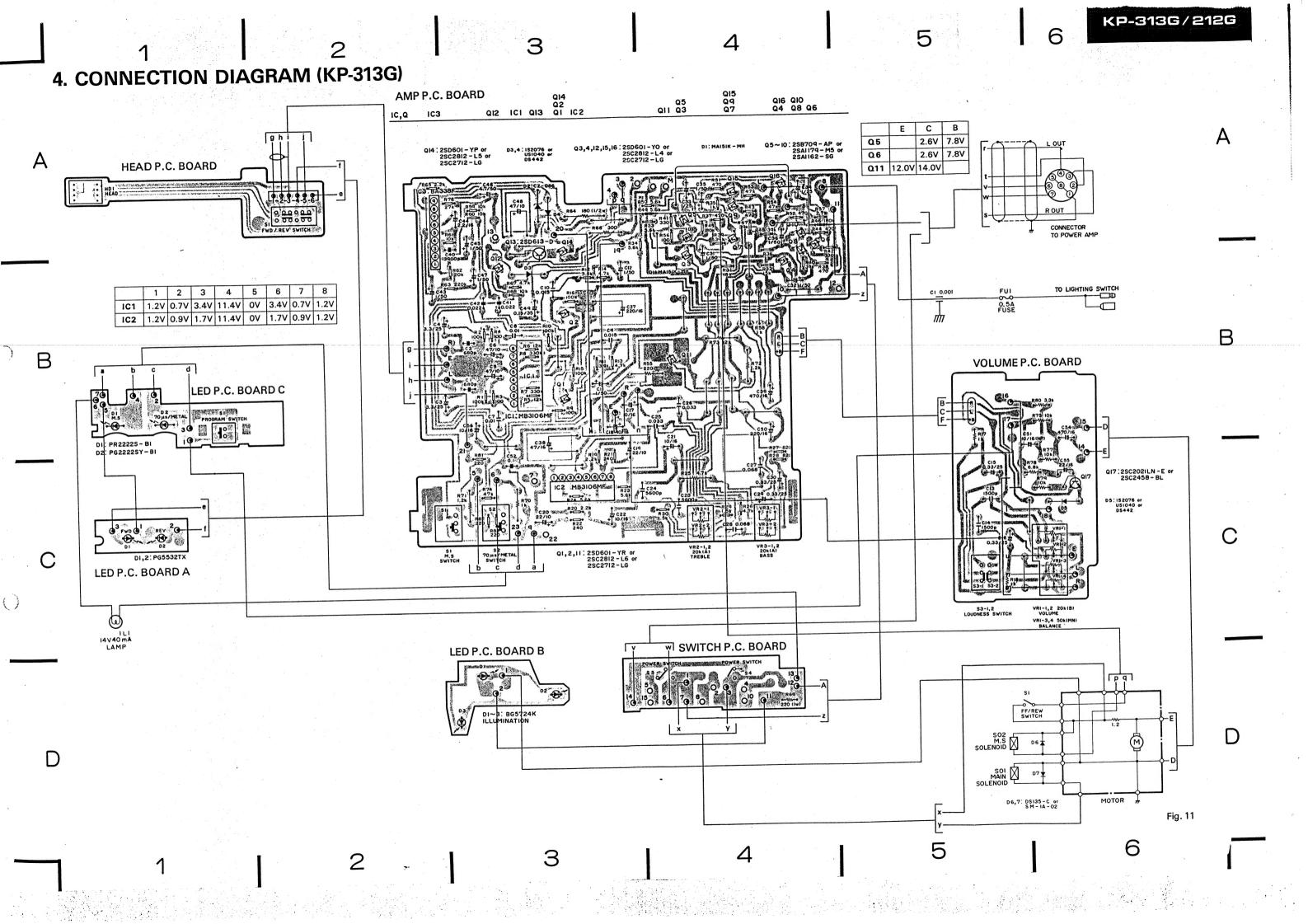
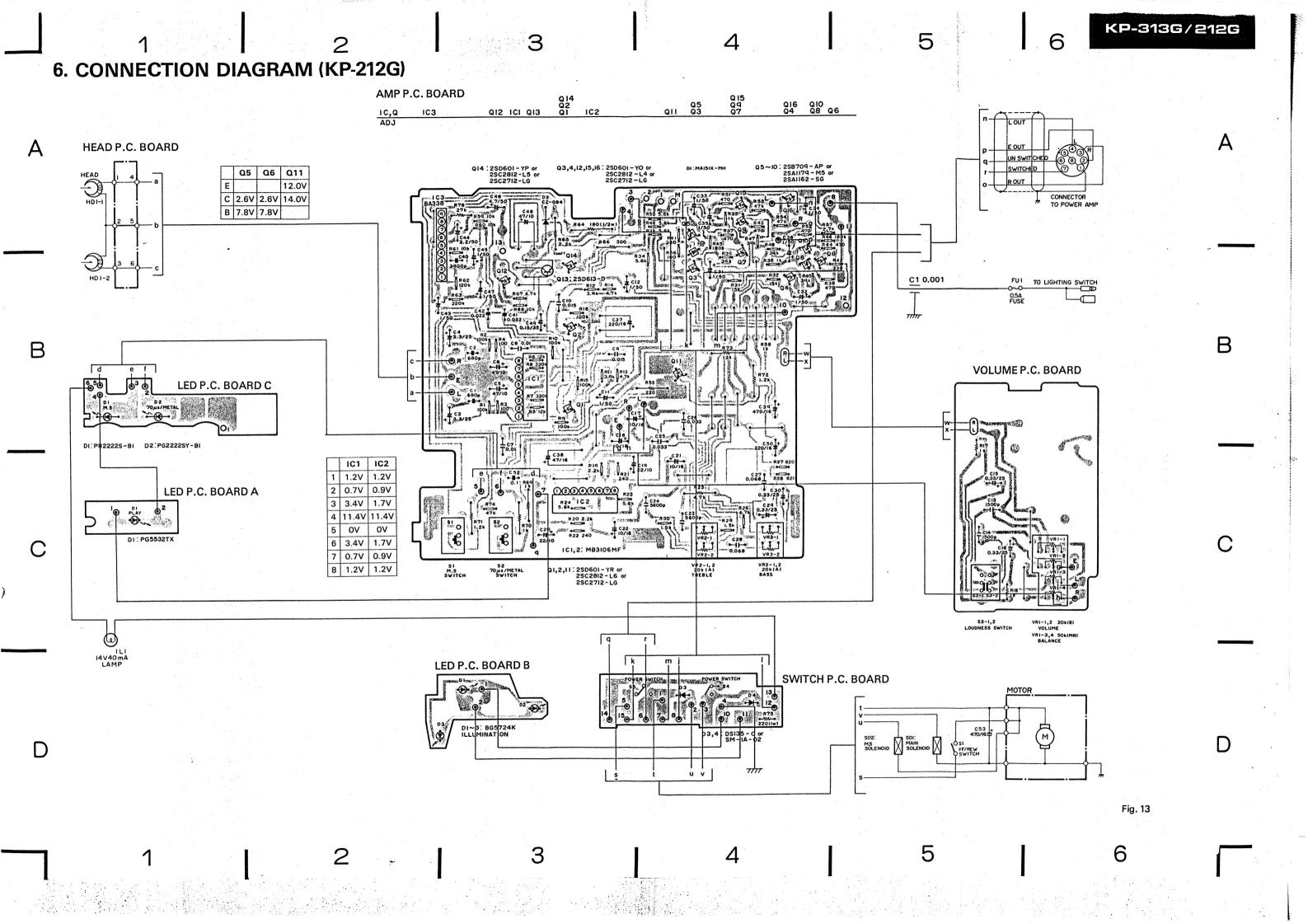


Fig. 12

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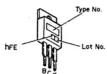


• IC's and Transistors

2SD601 2SC2812 2SC2712 2SB709 2SA1179 2SA1162



2SD613

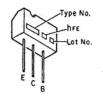


Part No.	Indication (Type No., hfe)
2SC2812-L4	L4
2SC2812-L5	L5
2SC2812-L6	L6
2SC2812-L7	L7
2SC2712-LG	LG
2SC2712-LL	LL
2SC2712-LO	LO
2SC2712-LY	LY
2SD601-YO	YO
2SD601-YP	YP
2SD601-YQ	YQ
2SD601-YR	YR
2SD601-YS	YS
2SA1162-SG	SG
2SA1162-SY	SY
2SB709-AP	AP
2SB709-AQ	ΩA
2SB709-AR	, AR
2SB709-AS	AS
2SA1179-M5	M5
2SA1179-M6	M6
2SA1179-M7	M7

K

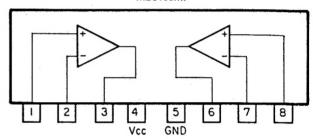


2SC2458

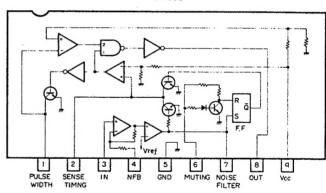




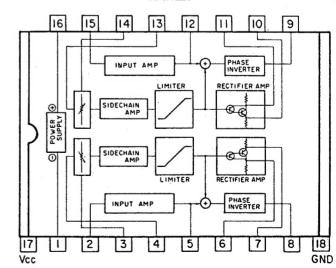
MB3106MF

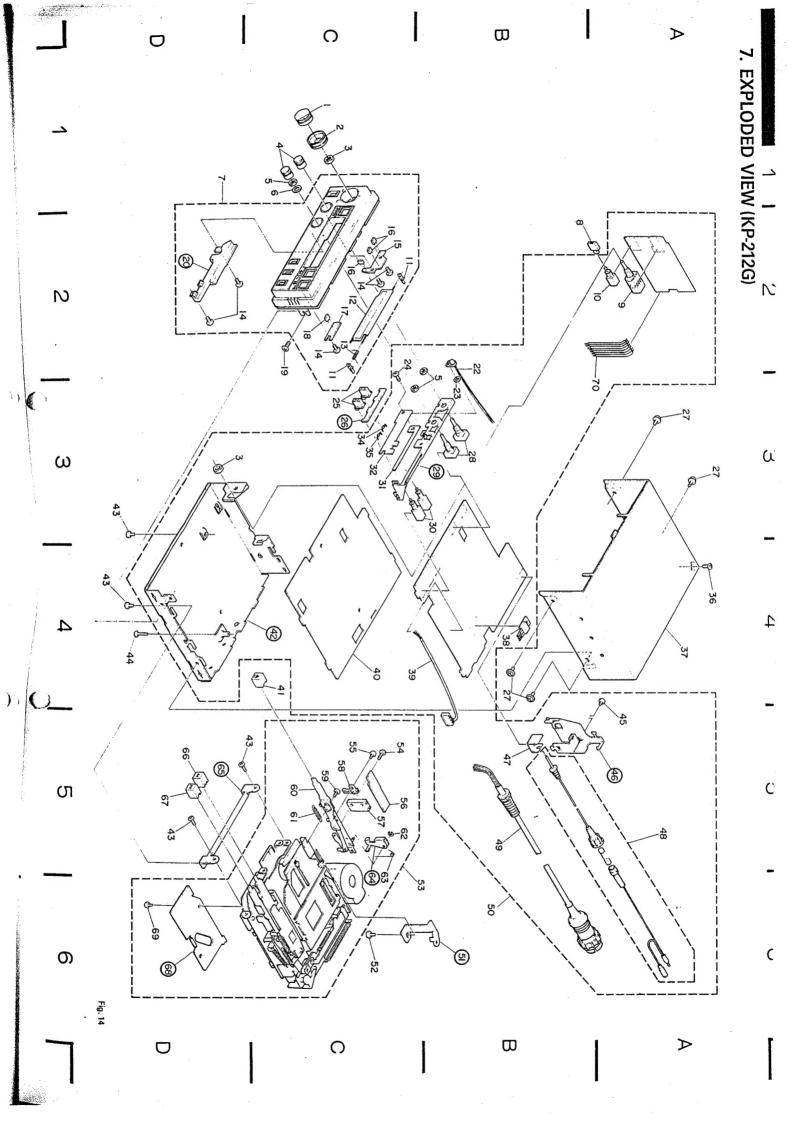


BA338



HA11226





Parts List (KP-212G)

NOTE:

- For your Parts Stock Control, the fast moving items are indicated with the marks
 ★ ★ and ★.
 - ★ ★: GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

Parts whose parts numbers are omitted are subject to being not supplied.

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
*	1.	CAA-393	Knob (VOLUME)		44.	BMZ26P120FMC	Screw
*	2.	CAA-394	Knob (BALANCE)		45.	BMZ30P040FMC	Screw
*	3.	CBA-067	Nut (M7)		46.		Holder
	4.	CAA-344	Knob (BASS, TREBLE)		47.	CCL-115	Feed through Capacitor
	5.	CBA-066	Nut (M6)			CDE-879	Cord
							50.5
	6.	CBF-091	Washer (M6)		49.	CDE-880	Cord
		CXC-784	Grille Assy			CWK-299	Amp Assy
* *		CAC-351	Button (LOUDNESS)		51.	O	Bracket
* *	9.	CCS-272	Volume, $20 k\Omega(B)$, $50 k\Omega(MN)$		52.	BMZ26P030FMC	Screw
			(VOLUME, BALANCE)				CCICV
					53.	CXC-753	Cassette Mechanism Assy
**	10.	CSG-130	Switch (LOUDNESS)		54.	CBA-106	Serw
	11.	CNF-207	Holder		55.	BMZ20P040FMC	Screw
	12.	CAT-140	Door		56.	CNL-274	P.C. Board
	13.	CBH-656	Spring				
	14.	BNZ20P050FMC	Screw	**	57.	CSF-015	Switch
				**	58.	CSN-071	Switch
	15.	CNL-262	P.C. Board		59.	BMZ23P090FMC	Screw
*	16.	BG5724K	LED		60.	CXC-744	Bracket
	17.	CNL-261	P.C. Board		61.	CBH-650	Spring
*	18.	PG5532TX	LED				
	19.	BMF30P050FMC	Screw		62.	YE15FUC	Washer
					63.	CBH-680	Spring
	20.		Lens		64.		Arm
	21.	VACANT			65.		Bracket
	22.	CEL-121	Lamp, 14V 40mA	*	66.	CAC-530	Button (REW)
	23.	HBF-139	Washer				
	24.	BMZ26P050FMC	Screw	*	67.	CAC-529	Button (FF)
					68.		Cover
*		CAA-527	Button (70µs/METAL, M.S)		69.	BMZ23P030FMC	Screw
	26.		Cover		70.	CDE-982	Connector
		BMN30P050FZK	Screw				
**	28.	CCS-276	Volume, 20kΩ(A)				
			(BASS, TREBLE)				
	2 9.	20000000	Holder				
**		CSG-165	Switch (70µs/METAL, M.S)				
	31.		Insulator				
			P.C. Board				
	33.	VACANT					
	-						
*		PG2222SY-B1	LED				
*		PR2222S-B1	LED				
		CBA-110	Screw				
		CNB-706	Case				
**	<i>3</i> 8.	2SD613	Transistor				
	00		_				
		CDE-900	Connector				
		CNM-692	Insulator				
*	41.	CAC-528	Button (EJECT)				

Chassis

43. BMZ26P040FMC Screw

- Sections

8. EXPLODED VIEW (KP-313G)

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
*	•	1. CAA-393	Knob (VOLUME)	 	20		
*	2	2. CAA-394	Knob (BALANCE)			BMN30P050FZK	
	3	3. CBA-067	Nut (M7)			. CBA-110 . CNB-706	Screw
*		I. CAA-344	Knob (BASS, TREBLE)	**			Case
	5	5. CBA-066	Nut (M6)	* *		2SD613	Transistor
	_				43.	CDF-249	Connector
		. CBF-091	Washer (M6)		44.	CNM-692	Insulator
		. CNF-207	Holder		45.		Chassis
		. CAT-141	Door			BMZ26P040FMC	
		. CBH-656	Spring		47.		
	10	. BNZ20P050FMC	Screw		48.		
	11	. CNL-262	P.C. Board				
*		. BG5724K	LED		49.		Holder
		CNL-260	P.C. Board		50.	CDE-879	Cord
*		PG5532TX	LED		51.	CCL-115	Feed through Capac
^	15.		Lens		52.	CDE-880	Cord
			Lens		53.	CWK-300	Amp Assy
	16.	BMF30P050FMC	Screw		EA		_
	17.	CXC-785	Grille Assy		54.	000	Bracket
**	18.	CCS-272	Volume, 20 kΩ(B), 50 kΩ(MN)			CXC-771	Cassette Mechanism
			(VOLUME, BALANCE)			BMZ26P030FMC	Screw
**	19.	CSG-130	Switch (LOUDNESS)			CNL-274	P.C. Board
					58.	CBA-106	Screw
*		CAC-351	Button (LOUDNESS)		59	BMZ20P040FMC	Screw
		VACANT				YE15FUC	Washer
		CDF-296	Connector			CBH-680	
		CEL-121	Lamp, 14V 40 mA		62.	05/1-000	Spring Arm
	24.	HBF-139	Washer	**		CSF-015	Switch
	05			^ ^	٠٠.	CO1-015	Switch
**	25.	CCS-276	Volume, 20kΩ(A)	**	64.	CSN-071	Switch
			(BASS, TREBLE)			BMZ23P090FMC	Screw
	26.	2010/09/	Holder			CXC-744	Bracket Unit
**		CSG-165	Switch (70µs/METAL, M.S)			CBH-650	Spring
	28.		Insulator		68.	00.1.000	Bracket
	29.	CNL-263	P.C. Board				
		BMZ26P050FMC	Screw	*		CAC-528	Button (EJECT)
	31.		Cushion	*		CAC-530	Button
**		CSG-176	Switch (PROGRAM)	*		CAC-529	Button
	33.	000 170	Holder		72.		Bracket
			,				
*	34.	CAC-531	Button (PROGRAM)				
*		CAC-527	Button (70µs/METAL, M.S)				
*	36.	PG2222SY-B1	LED				
*		PR2222S-B1	LED				
	38.		Cover				

9. ELECTRICAL PARTS LIST

NOTE:

∧ Who

When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

 560Ω 56×10^{1} 561 ... RD1/4PS $\boxed{561}$ J $47K\Omega$ 47×10^{3} 473 ... RD1/4PS $\boxed{473}$ 0.5Ω 0R5 ... RN2H $\boxed{0R5}$ K 1Ω ... RS1P $\boxed{010}$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors). $5.62k\Omega$ $562 \times 10^1 \dots RN1/4SR$ [6] [2] [7]

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Volume P.C. Board (KP-313G)

MISCELLANEOUS

Mark	Part No.	Symbol & Description		
**	2SC2021LN or 2SC2458	Q17		
*	1S2076 or US1040 or DS442	D5		
**	CCS-272	VR1	Volume, 20 kΩ(B), 50 kΩ(MN)	
**	CSG-130	S3	(VOLUME, BALANCE) Switch (LOUDNESS)	

RESISTORS

Mark	Part No.	Symbol & Description		
	RD1/4VM□□□J	R17. R18. R75. R77 — R80	_	

CAPACITORS

/lark	Part No.	Symbol & Description		
	CQMA152J50 CSYAR33M25SAN CEA100M16NP CEA471M16L CCH-065	C13, C14 C15, C16 C51 C54 C55	22μF/16V	

Volume P.C. Board (KP-212G)

Mark	Part No.	Symbol & Description			
**	CSG-130 CCS-272	S3 VR1	Switch (LOUD) Volume, 20kΩ(t 50kΩ(MN)		
	RD1/4VM□□□J CQMA152J50	R17, R18 C13, C14	(VOLUME, BAL		
	CSYAR33M25SAN	C15, C16			



CAPACITORS

LED P.C. Board B

★ BG5724K

Mark Part No.

Mark	Part No.	Symbol & Description			
	CKSYB681K50	C1, C2	Chip Capacitor		
	CEANL3R3M25L	C3, C4			
	CCH-066	C5, C6, C48	3 47μF/10V		
	CQMA103J50	C7, C8			
	CQMA153J50	C9, C10	÷ .		
	CCH-060	C34 — C36	:31, C32, C33 (KP-212G), , C43, C45, C47 1µF/50V		
	CCH-063	C17, C18, C	C21, C22, C56 (KP-313G) 10µF/16V		
	CCH-064	C19, C20	22μF/10V		
	CQMA562J50	C23, C24			
	CQMA333J50	C25, C26			
	CQMA683J50	C27, C28			
	CSYAR33M25SAN	C29, C30			
	CSZA010M25	C33 (KP-31	13G)		
	CEA221M16L	C37, C50			
	CEA470M16L	C38			
	CEA471M16L	C39			
	CKSYB392K50	C40	Chip Capacitor		
	CKSYF223Z50	C41, C42	Chip Capacitor		
	CCH-061	C44	2.2 _µ F/50V		
	CCH-062	C46	4.7μF/50V		
	CSZAR15M35	C49			
	CKSYF104Z25	C52	Chip Capacitor		
	P.C. Board A (K	D 212G)			
LED	P.C. Doard A (N				
Mark	Part No.	Symbol 8	Description		
*	PG5532TX	D1	LED		
LED	P.C. Board A (K	(P-313G)			
Mark	Part No.	Symbol & Description			
*	PG5532TX	D1, D2	LED		

Symbol & Description

D1 - D3 LED

LED P.C. Board C

Mark	Part No.	Symbol & Description		
*	PR2222S-B1 PG2222SY-B1 CSG-176	D1 LED D2 LED S1 (KP-313G) Switch (PROGRAM)		

Switch P.C. Board (KP-313G)

Mark	Part No.	Symbol & Description		
	CSN-071 CSF-015	S4 S5	Switch (POWER) Switch (POWER)	
* *	BS1PDDDJ	R69		

Switch P.C. Board (KP-212G)

Mark	Part No.	Symbol & Description		
*	DS135 or SM-1A-02	D3, D4		
**	CSN-071	S4	Switch (POWER)	
**	CSF-015	S5	Switch (POWER)	
	RS1PDDDJ	R75		

Head P.C. Board (KP-313G)

Mark	Part No. CSH-070	Symbol & Description	
**		S1	Switch (FWD/REV)
**	CPB-066	HD1	Head

Miscellaneous Parts List

Mark	Part No.	Symbol & Description D6 (KP-313G), D7 (KP-313G)		
*	DS135 or			
	SM-1A-02			
	CCL-115	C1	Feed through Capacito	1
	CEA471M16L	C53 (KF	P-212G)	
**	CSN-070	S1	Switch (FF/REW)	
	CEL-121	IL1	Lamp, 14V 40mA	
**	CXM-103 or	M (KP-212G) Motor		
	CXM-082			
**	CXM-106	M (KP-	313G) Motor	
*	CXP-033	SO1 (K	(P-212G) Solenoid	
*	CXP-035		(P-313G) Solenoid	
*	CXP-032	SO2 (K	(P-212G) Solenoid	
*	CXP-034	SO2 (k	(P-313G) Solenoid	
**	000 004	HD1 (I	(P-212G) Head	
^ ^	CPB-065			